

# MJ / MJ-B SERIES

Standard Non Metallic Magnetic Drive Pumps

PFA

PVDF

CFRPVDF

**ANTICO**



ISO 2858 | ISO 5199 | EN 22858

Lined Type  
Sealless Corrosion Resistant Chemical Pumps

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# MJ / MJ-B Series

Sealless, Fluoropolymer Lined, Standard Chemical Resistant Magnetic Drive Pumps

## Product Overview

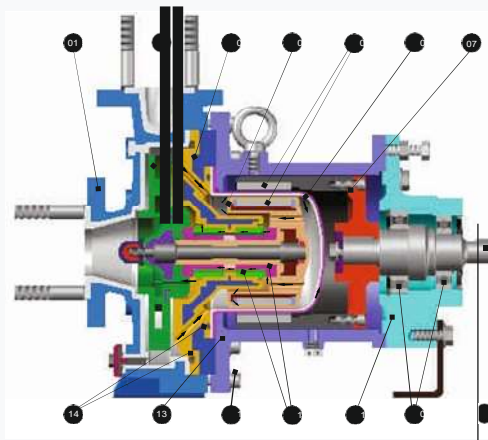
MJ Series pumps are fluoropolymer lined, magnetic drive, horizontal, single stage, volute casing, center line discharge, end suction, sealless centrifugal pumps with rotary shaft design to surpass performance expectations in the most demanding chemical applications and environments. Dimensional and design criteria of MJ pumps conform to ISO 2858 / ISO 5199 / EN 22858.

## Technical Data

Operating Frequency		50 Hz	60 Hz
Capacity [Q]	up to	90 m <sup>3</sup> /hr (396 US gpm)	440 US gpm (100 m <sup>3</sup> /hr)
Head [H]	up to	62 m (203 ft)	282 ft (86 m)
Motor Power [P]	up to	18.5 kW (25 hp)	30 hp (22 kW)
Solids Handling	up to	10% w/w with 150 microns (6 mil) particle size	
Viscosity	up to	150 mPas (cP)	
Suction Lift	up to	4 m (13 ft) with priming chamber*	
Maximum Working Pressure		16 bar (232 psi)	
Maximum Specific Gravity [SG]		1.8 - 3	
Minimum Continuous Flow [MCF]		2.5 m <sup>3</sup> /hr (11 US gpm)	
Maximum Temperature		PFA: 180°C (356°F), PVDF: 104°C (220°F), CFRPVDF: 110°C (230°F), GFRPP: 90°C (194°F)	
Dry Running Capability		limited	
Suction & Delivery Connection		ANSI B16.5 - Class 150, DIN 2501, BS4504 - PN16	
Motor Compatibility		IS 1231, IEC 72-1, NEMA*	

\*available on request

## Materials



Casing	Ductile Cast Iron* lined with PFA <sup>1</sup> / PVDF <sup>2</sup> / CFRPVDF <sup>3</sup>
Impeller	Metal Insert lined with PFA / PVDF / CFRPVDF
Bush Holder	Ductile Cast Iron lined with PFA / PVDF / CFRPVDF
Inner Magnetic Ring (IMR)	Metal Insert lined with PFA / PVDF / CFRPVDF
Magnets	Rare Earth Magnets (NdFeB <sup>4</sup> / SmCo <sup>5</sup> )
Isolation Shell	PFA - Inner Shell covered with CFRP <sup>6</sup> Shell
Outer Magnetic Ring (OMR)	Ductile Cast Iron*
Drive Shaft - long coupled	Stainless Steel
Rolling Element Bearing	Carbon Chromium Steel
Bearing Pedestal	Cast Iron*
Bearings & Bushings	Silicon Carbide (SiC)
Fasteners	Stainless Steel
Housing	Ductile Cast Iron*
O-rings	FKM / FFKM / EPDM / TFE-P

1 - Perfluoroalkoxy Alkane, 2 - Polyvinylidene Fluoride, 3 - Carbon Fibre-Reinforced Polyvinylidene Fluoride, 4 - High Performance Neodymium Iron Boron Magnets, 5 - High Performance Samarium Cobalt Magnets, 6 - Carbon Fibre-Reinforced Plastic.

\* - with high grade 2C corrosion protection paint. Special coatings available on request

## Special Features



### Impeller Locking Mechanism

Prevents catastrophic failure in case of reverse rotation



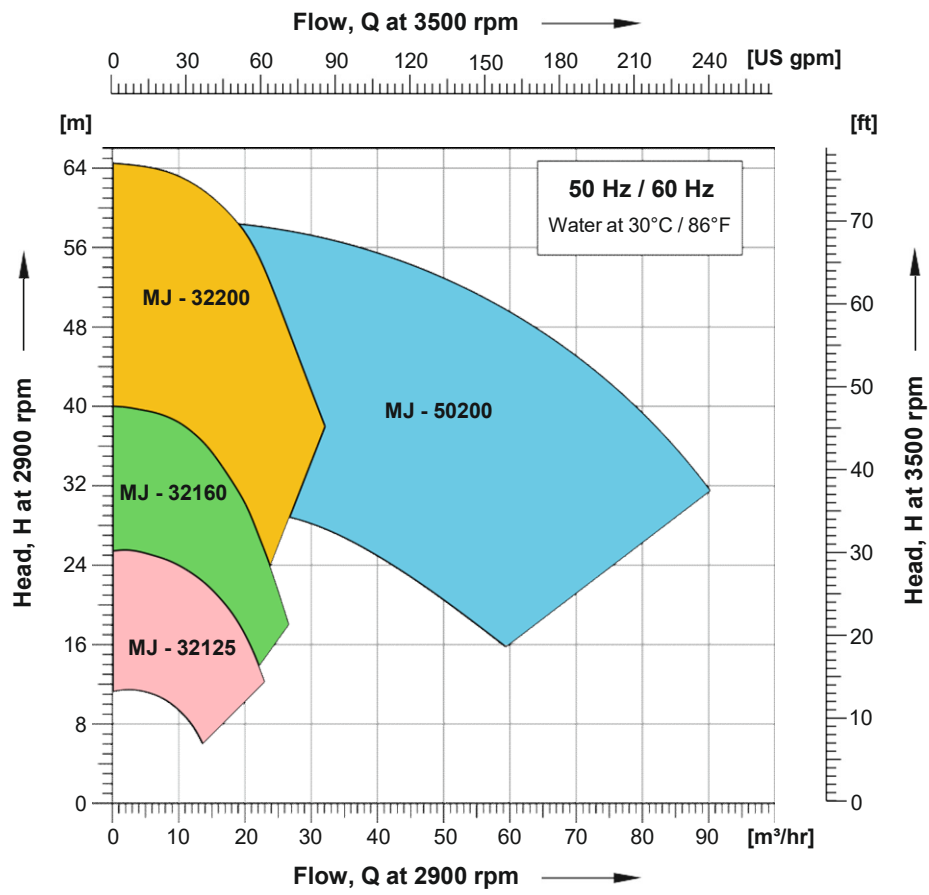
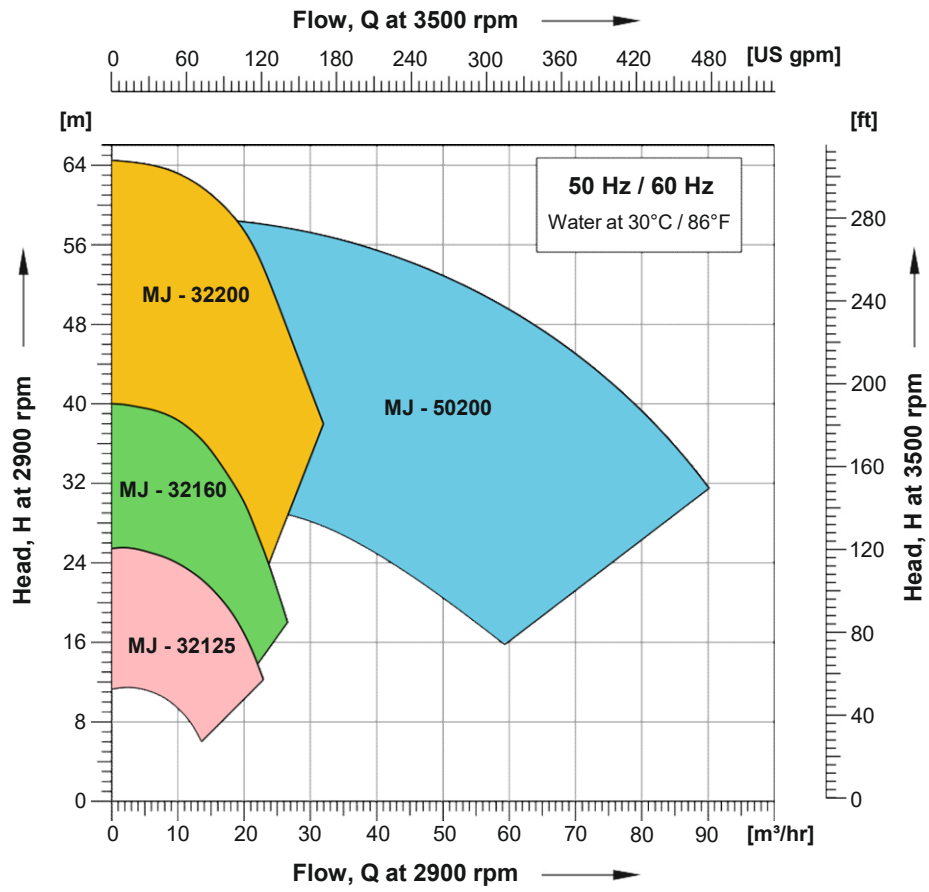
### Closed Impeller

Monolithic closed impeller with curved blade passage for effective pumping of process media



### Drain Plug

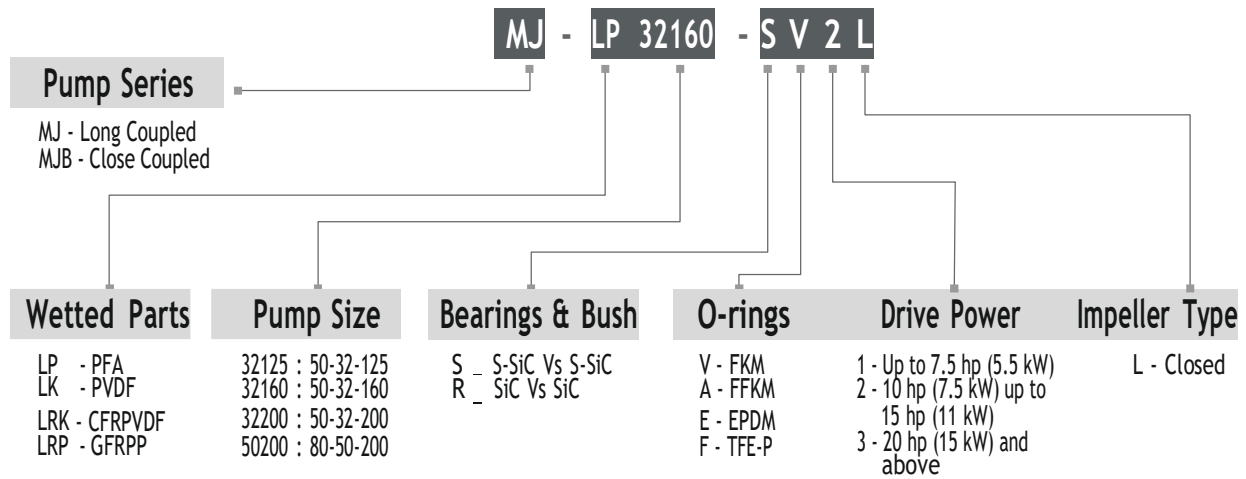
Drain plug allows swift drainage of hazardous liquids



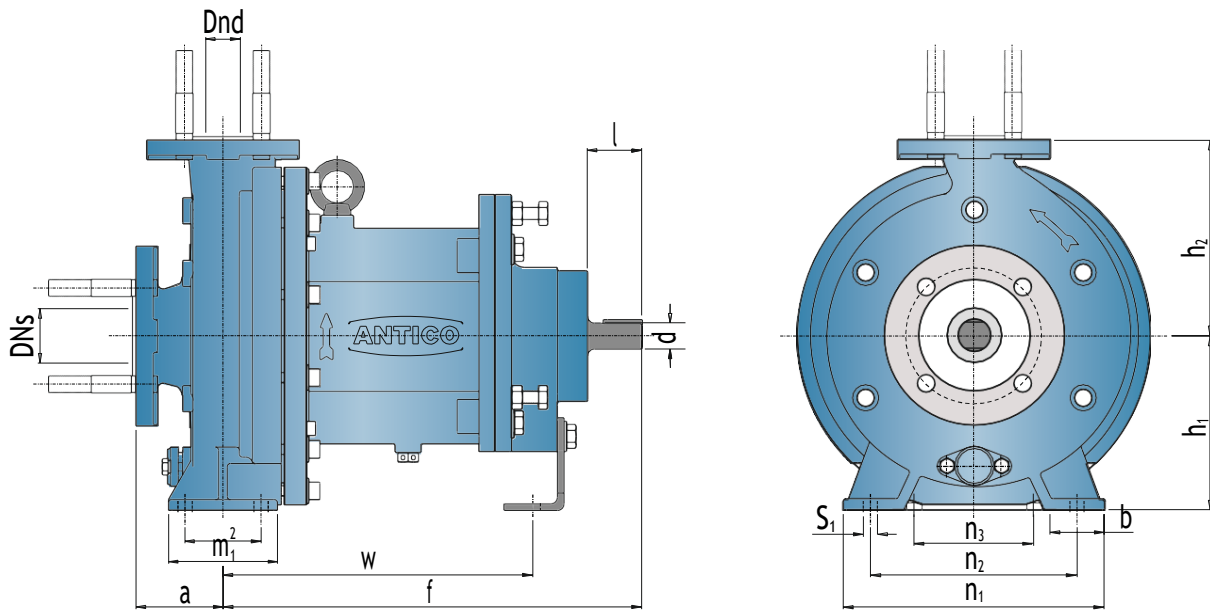
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Sealless, Fluoropolymer Lined, Standard Chemical Resistant Magnetic Drive Pumps

## PuMP IdentiflcAtion



## DIMensions



MODELS	PUMP DIMENSIONS															
	DN <sub>s</sub>	DN <sub>d</sub>	a	f	h <sub>1</sub>	h <sub>2</sub>	b	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	n <sub>3</sub>	w	S <sub>1</sub>	d	l
50- 32-125	50	32	80	385	112	140	50	100	70	190	140	110	285	M12	24	50
50- 32-160	50	32	80	385	132	160	50	100	70	240	190	110	285	M12	24	50
50- 32-200	50	32	80	385	160	180	50	100	70	240	190	110	285	M12	24	50
80- 50-200	80	50	100	385	160	200	50	100	70	265	212	110	285	M12	24	50

All Dimensions in mm

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Anticorrosive Equipment Pvt. Ltd.